

Figure 4.—Magnetic model of profile <u>C-C'</u>' extending northward along meridian 146⁰00' from the central Copper River basin to near the southern boundary of the Fort Greeley Military Reservation. The profile passes from one aeromagnetic survey to another at point <u>C'</u> (latitude 63⁰00'). Dashed line shows observation level of aircraft; numbered, shaded areas are bodies of magnetic rock (the darker the shade, the higher the magnetic susceptibility); unshaded areas are nonmagnetic rock. Major faults crossed are the West Fork fault system '(wffs), Paxon Lake fault (plf), Eureka Creek thrust (ect), Broxon Gulch thrust (bgt), Denali fault (df), and Hines Creek strand of the Denali fault (dhc). W:t=Wrangellia—Tangle subterrane of Nokleberg and others (1982); W:sl=Wrangellia—Slana River subterrane of Nokleberg and others (1982); Ml=Maclaren terrane; Wy=Windy terrane; Ap=Aurora Peak terrane (Aleinikoff and others, 1984); YT=Yukon—Tanana terrane. Terrane names and

Distance (km)

boundaries from Jones and others (1981), except as noted.

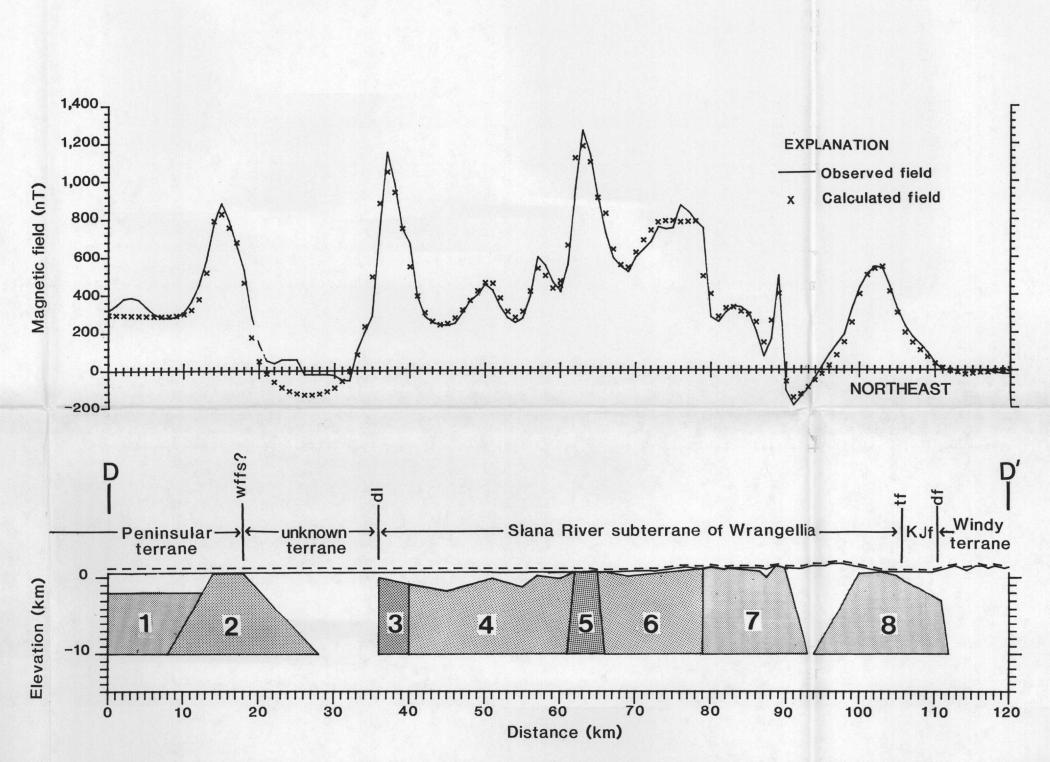


Figure 5.--Magnetic model of profile <u>D-D'</u> extending northeast approximately parallel to the Glenn Highway from near Gulkana to latitude 63°00' southwest of Tok. Dashed line shows observation level of aircraft; numbered, shaded areas are bodies of magnetic rock (the darker the shade, the higher the magnetic susceptibility); unshaded areas are nonmagnetic rock. This profile crosses the West Fork fault system (wffs, Nokleberg and others, 1986), the Drum lineament (dl, defined in text), the Totschunda fault (tf), and the Denali fault (df). Geologic control from Richter (1976). KJf=deformed Upper Mesozoic flysch terrane. Terrane names from Jones and others (1981).

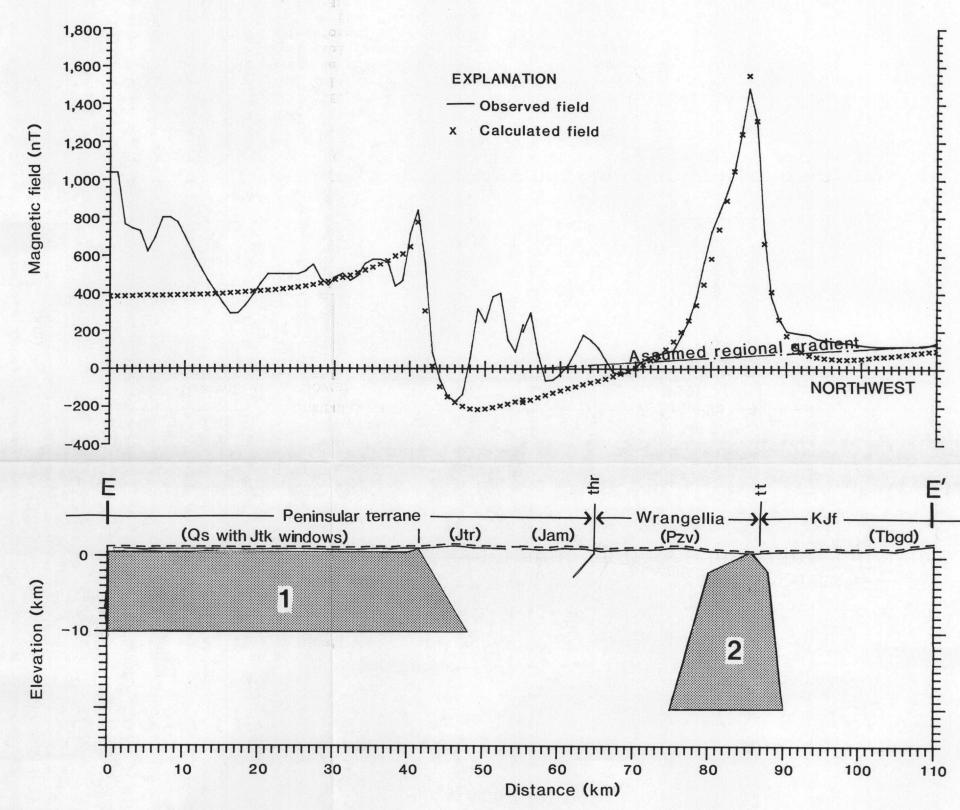


Figure 6.—Magnetic model of profile <u>E-E'</u> extending northwest from near Old Man Lake across the Susitna River to near Tsusena Butte. Dashed line shows observation level of aircraft; numbered, shaded areas are bodies of magnetic rock (the darker the shade, the higher the magnetic susceptibility); unshaded areas are nonmagnetic rock. thr=unnamed thrust fault separating Peninsular and Wrangellia terranes (Jones and others, 1981); tt=Talkeetna thrust; KJf=deformed Upper Mesozoic flysch terrane (Jones and others, 1981). Geologic units (symbols in parentheses) are from Csejtey and others (1978): Qs=Quaternary sediments; Jtk=Jurassic Talkeetna Formation; Jtr=Jurassic trondhjemite; Jam=Jurassic amphibolites; Pzv=Paleozoic volcanic rocks (predominantly); Tbgd=Tertiary biotite granodiorites.